

# CONVEYOR COMPONENTS



**PULLEYS | LAGGING | IDLERS | IMPACT BEDS  
MAGNETIC SEPARATORS | TAKE-UPS**



# Drum Pulleys

All Douglas drum pulleys feature our exclusive single piece rolled rim, solid steel pipe or tubing design that ensures long-life, durability and helps ensure proper belt tracking.

One piece solid steel rims and end discs (see diagram below) are welded into a single assembly using the most precise welding methods available to ensure the maximum level of strength and durability.

Rubber lagging is applied in our plant using a state of the art autoclave for maximum bond and total quality control.

## Six classes available to suit your specific needs:

Heavy Duty

Mine Duty

Pulp and Paper Mill Duty™

Quarry Duty

Extreme Duty

True Engineered Class

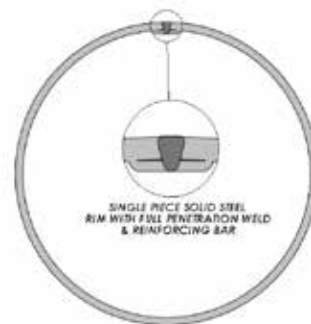
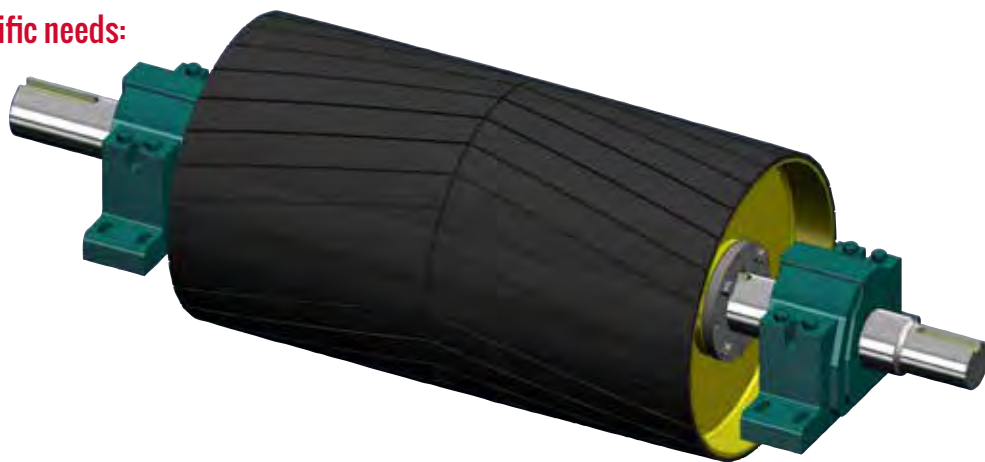
XT style hubs and bushings are standard

Keyless Locking Elements and QD Style

Stainless steel hubs and bushings in XT Style and QD Style

Lagging styles include:

- Standard Lagging in plain, herringbone/chevron, diamond, spiral or with machined finishes
- Ceramic Lagging for increased lagging life and more traction
- Replaceable Rim Lagging®



# Wing Pulleys

The engineered angle of our gussets creates the optimum angle to discharge material away from the pulley and belt and offers enhanced self cleaning ability over other designs.

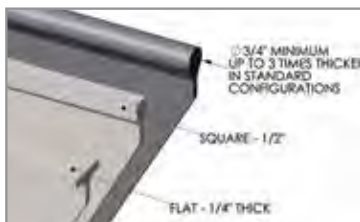
## Six classes available to suit your specific needs:

Heavy Duty	Quarry Duty
Mine Duty	Extreme Duty
Pulp and Paper Mill Duty™	True Engineered Class

## Round Bar Better by Design

- Full 3/4" Thick Minimum Round Contact Bar Can Last 3X Longer
- Helps Prevent Wing Folding
- Round Bar Protects Belt Bottom Cover from Cuts and Tears
- Round Bar Increases Belt Fastener Life
- Self Cleaning Design Discharges Material Helping to Prevent Build Up
- Optional Wing Reinforcing Rings Available
- Spiral Wing Pulleys Available

## Contact Bar Comparison



## Douglas Solid 3/4" Steel Round Bar Wing Tips Wear Longer and Retain Roundness.

Wears twice as long as other manufacturers flat bar or 1/4" round

Protects underside of belt from cuts, smoother running

Large pulley are fitted with 1" solid steel bars for long life



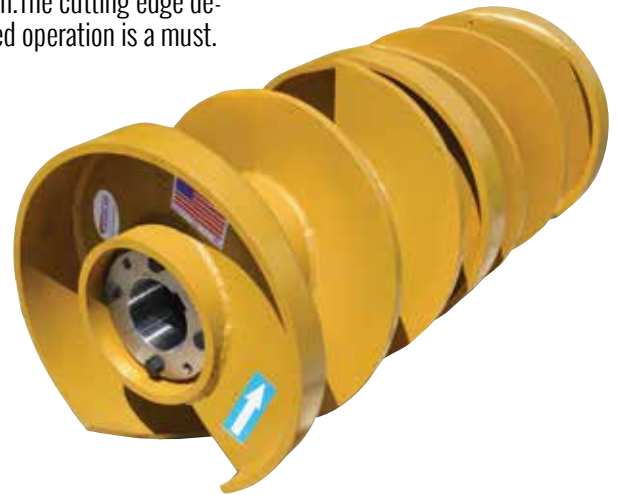
# Additional Pulley Systems

## The Vortex™ Spiral Clean Pulley

The Vortex Spiral Clean Pulley is an innovative concept in self cleaning pulley design. The cutting edge design is for harsh operating conditions and for those applications where uninterrupted operation is a must.

### Design features include:

- More efficient self cleaning ability than standard wing pulleys
- Smoother running, reduced vibration, improves sealing at transfer points, reduces the level of noise commonly associated with wing pulleys
- Spiral design aids in belt tracking by moving the belt gently from the center of the pulley to the opposing edges with equal force
- Unique continuous flight design prevents wing folding
- Patent pending design moves tramp material to the edge of the pulley and discharges it away from the belt
- Abrasion Resistant center and discharge assemblies standard
- XT style bushings standard. Keyless locking elements optional



## Integra™ Series Drum & Wing Pulleys

### Integral Bearing Pulleys Offer Many Performance Benefits

- May be used in all non-drive applications
- Available in drum, self cleaning wing and Vortex™ styles
- Available in Mine Duty & Extreme Duty™ Series
- Integral End disk eliminates chance of hub weld failure
- Piloted flanged bearing design simple to install, maintain & repair
- Sealed for life bearings equal less maintenance
- “Off the Shelf” bearing availability reduces down time and cost
- Up to 33% higher load ratings as a result of reduced bearing centers



# Ceramic Pulley Lagging

Douglas® Ceramic Pulley Lagging delivers substantially increased traction over conventional pulley lagging. Lagging compound features unique Kevlar® enhanced rubber formulation resulting in a tougher, longer lasting product. Durable ceramic tiles last longer than standard rubber lagging resulting in a reduction in the number of times the pulley must be changed over the life of the conveyor system. The ceramic tiles are bonded to the rubber on all four sides as well as the bottom.

- As much as twice the coefficient of friction over non lagged pulleys
- 38% ceramic contact surface with the belt (Medium Duty)
- As much as 50% higher coefficient of friction over standard rubber lagging
- Virtually eliminates belt slippage
- Improves belt tracking
- Easily sheds water and dirt
- Lower belt tension and less take-up weight increases life of components and belt



# Replaceable Rim Lagging®

Engineered sections are made for specific pulleys and effectively cover the pulley face in a protective shell of rubber and steel and are an ideal way to save money and time. Vulcanized in house using state of the art computer controlled autoclave. Standard RRL is manufactured with 1/2" thick 60-65 durometer SBR compound suitable for a wide variety of applications and is bonded to a 3/16" thick solid steel backing plate. ROLLED CROWN FACE is standard. Flat face is available. Diamond grooving is standard. Available in weld on and bolt on configurations. Saves up to 70% on labor costs compared to other styles of replaceable lagging.

- No layout necessary to fit to existing pulleys
- No cutting necessary
- Available in weld on and bolt on styles
- Ceramic lagging available



REPLACEABLE RIM LAGGING® SECTION CHART										
Diameter	12	14	16	18	20	24	30	36	42	48
Weight P.L.L.	2.09	2.44	2.80	3.48	3.63	4.18	5.23	6.28	7.33	8.37
# of Segments Require	3	3	4	4	4	4	4	5	5	5

# Vulcanized Pulley Lagging

Douglas® Truck Tire Tuff™ Conveyor Pulley Lagging delivers increased traction and pulley life over non lagged pulleys. Increased traction between the pulley face and the belt bottom cover reduces belt slippage and helps to improve belt tracking. Vulcanized rubber lagging protects the pulley's face from wear and extends pulley service life. Lagging is applied in our plant for total quality control.

- As much as 50% increase in coefficient of friction over non lagged pulleys
- Protects pulley face from wear and extends pulley service life
- Herringbone and Diamond Grooves shed water and dirt promoting a self-cleaning effect
- Improves Belt Tracking



Standard Thicknesses	Standard Grooving Patterns	Standard Material	Standard Durometer	Special Durometers	Special Materials
1/4", 3/8", 1/2", 3/4"	Plain Wrap Impression*, Herringbone**, Diamond	SBR	60-65 Shore A	40, 80	MSHA, Nitrile, Neoprene, EPDM, SCOF, Tan Neoprene